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PHOTOGRAPHIC INTERPRETATION REPORT

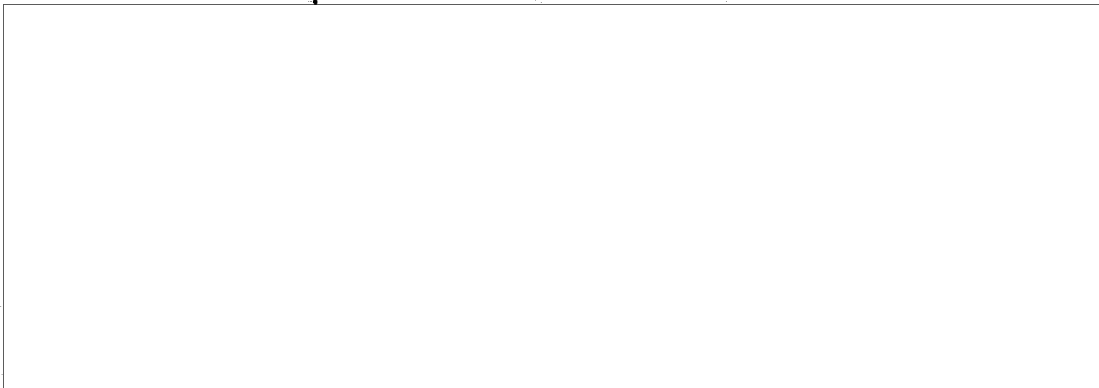
# SYNCHROTRON UNDER CONSTRUCTION. YEREVAN. USSR



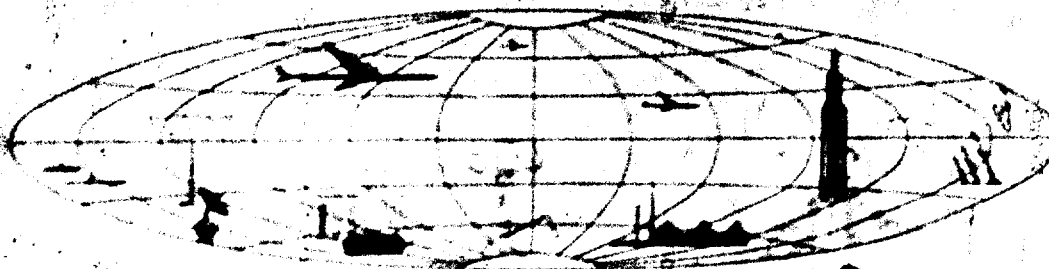
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## SYNCHROTRON UNDER CONSTRUCTION, YEREVAN, USSR

### INTRODUCTION

The site of the reported 6 billion-electron-volt (BEV) synchrotron under construction at Yerevan, USSR, has been identified on photography of excellent quality from KEYHOLE

April 1964. The synchrotron is located at 40-12-20N 44-29-00E in the suburb of Nor Arabkir, immediately north-northwest of the city of Yerevan and on the west bank of the Razdan River (Figure 1). Collateral information indicates that the facility is part of the Yerevan Physical Institute, which is located about 2.6 nautical miles (nm) away. 1/

The street pattern of Nor Arabkir borders on the site. A security wall surrounding the site is nearly complete, and guard posts are evident at the entrances. Since construction of the synchrotron and its associated research and service facilities is still in progress, the road system within the site has not been com-

pleted (Figures 2 and 3).

Four large water tanks, two measuring

ground, and what appear to be pumping facilities, all in the last stages of construction, are located on a rise approximately 1,340 feet north of the site (inset, Figure 2). An apparent pipeline is under construction from the Razdan River, immediately to the east, to the water tanks and thence to the synchrotron site. Water from the tanks will probably be fed by gravity to the site.

Powerlines to the site are not discernible. The Kanaker hydroelectric powerplant is located approximately 1.6 nm northeast of the site, and an electric substation is located at the northwest corner of the site (item 24, Figure 3).

### DESCRIPTION OF SITE

Analysis reveals that less than half of the synchrotron magnet tunnel (item 6, Figure 3) is complete. There is no indication that mounting of the magnets and coils has begun. The associated experimental hall and laboratory building (item 7, Figure 3) is not completely roofed.

Five completed, apparently conventional laboratory buildings are present at the site (items 2, 15, 16, 18, and 22, Figure 3). All of these appear to have roof vents. The state of construction at the site and the lack of a permanent road pattern, however, suggest that the buildings are not yet in operation.

Another significant building (item 14, Figure 3) with an associated stack 135 feet high is under construction just west of the magnet tunnel. This building will probably be a steamplant.

Two unidentified buildings, both completed, are located outside the wall securing the area, one on the south side and the other at the northwest corner (items 19 and 29, Figure 3). Each is connected to the secured site by a trench.

Numerous large apartment-type buildings are in various stages of construction immediately south and southwest of the site.

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FIGURE 1. SYNCHROTRON UNDER CONSTRUCTION AT YEREVAN, USSR, APRIL 1964.

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FIGURE 2. SYNCHROTRON SITE, APRIL 1964. Inset shows associated water tanks and probable pumping facilities 1,340 feet north of site.

Table 1. Description of Structures at Synchrotron Site (Items are keyed to Figure 3)

Item	Description	Dimensions (ft)
1	Probable shop.	
2	Laboratory building with 13 roof vents	
3	Unidentified building	
4	Unidentified building	
5	Probable linear accelerator	
6	Magnet tunnel under construction	
7	Experimental hall and laboratory building under construction; at least 2 roof vents	
8	Cement plant	
9	Probable shop	
10	Unidentified building	
11	Probable shop	
12	Unidentified building	
13	Unidentified building under construction	
14	Probable steamplant under construction with associated stack	
15	Laboratory building with 5 roof vents	

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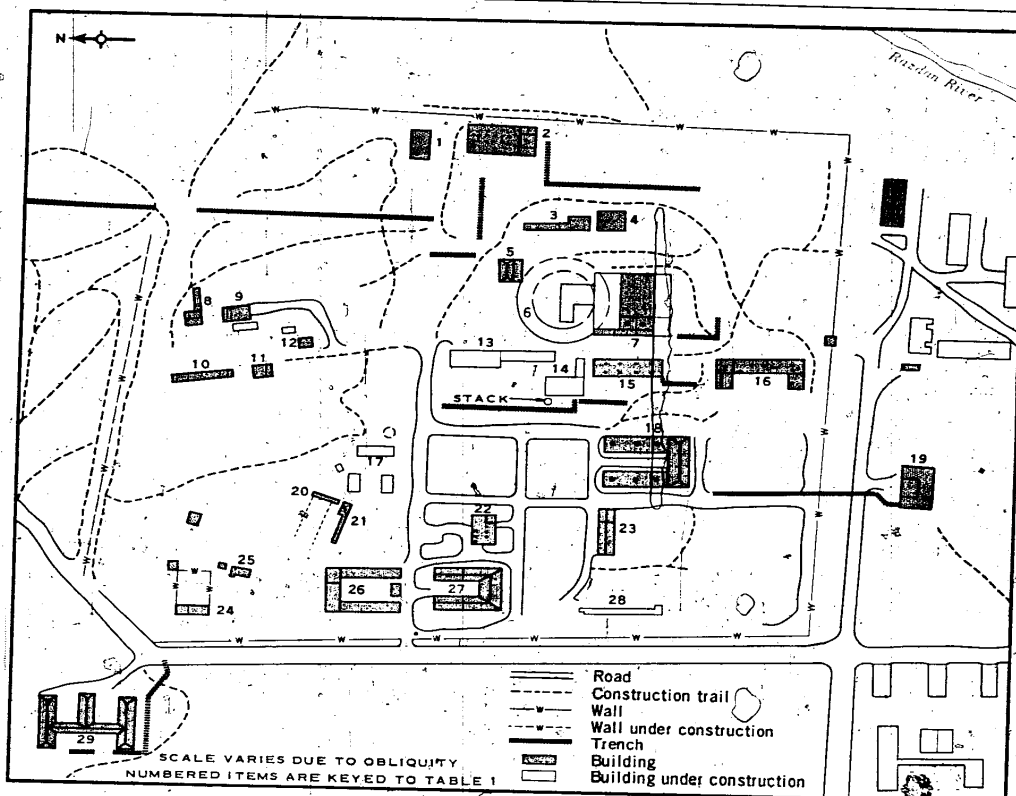
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Table 1. (Continued)

Item	Description
16	Laboratory building with at least 11 roof vents
17	Unidentified building under construction
15	Laboratory building with 6 roof vents
19	Unidentified building
20	Unidentified structure
21	Probable storage building
22	Laboratory building with 6 roof vents
23	Unidentified building
24	Electric substation with associated control building
25	Unidentified building
26	Probable administration building
27	Probable administration building
25	Unidentified building
29	Unidentified building



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REFERENCES



MAPS OR CHARTS

ACIC. US Air Target Complex Chart, Series 100, Sheet 0325-9993, 100A, 2d ed, Dec 52, scale 1:100,000 (SECRET)

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REQUIREMENT

CIA. C-SI4-81,473

NPIC PROJECT

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